## In the claims:

Please cancel claims 18, 27 and 36.

Please amend the claims as follows:

1. (previously presented): A quality of service (QoS) shaping and provisioning method for a switch having a plurality of ports, the method comprising the steps of:

receiving a packet having a first priority value on a first port of the switch;

determining a second priority value and a third priority value for the packet based on one or more flow properties processing the packet on the switch based on the second priority value; and

transmitting the packet on a second port of the switch with the third priority value.

- 2. (original): The method of claim 1 wherein the first priority value includes information from at least one of a 802.1Q tag field in Layer 2, a Type of Service (ToS) field in Layer 3 and a Diffserv in Layer 3.
- 3. (original): The method of claim 1 wherein the first priority value includes an inbound priority value, and the second priority value is determined based on the inbound priority value.
- 4. (original): The method of claim 1 wherein the second priority value includes an internal priority value, and the internal priority value is used to indicate a processing priority of the packet while the packet is being processed in the switch.
- 5. (original): The method of claim 1 wherein the second priority value is determined based on one or more flow properties including at least one of Layer 2 information, Layer 3 information and Layer 4 information.

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- (original): The method of claim 1 wherein the first priority value is mapped by a 6. QoS shaping map into the second priority value.
- 7. (original): The method of claim 6 wherein mapping information of the QoS shaping map can be updated during operation of the switch.
- (currently amended): A quality of service (QoS) shaping and provisioning 8. method for a switch having a plurality of ports, the method comprising the steps of

receiving a packet having a first priority value on a first port of the switch; and

determining a second priority value and a third priority value for the packet based on one or more flow properties, wherein the second priority value is applied in processing the packet on the switch and the third priority value is applied in processing the packet on a device to which the switch transmits the packet.

- 9. (original): The method of claim 8 wherein the first priority value includes an inbound priority value, and the second priority value is determined based on the inbound priority value.
- (previously presented): The method of claim 8 wherein the third priority value 10. includes an outbound priority value, and the outbound priority value is applied to the packet before the packet is transmitted from the switch.
- (previously presented): The method of claim 8 wherein the third priority 11. value is determined based on one or more flow properties including at least one of Layer 2 information, Layer 3 information and Layer 4 information.

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- 12. (previously presented): The method of claim 8 wherein the first priority value is mapped by a QoS shaping map into the third priority value.
- 13. (original): The method of claim 12 wherein mapping information of the QoS shaping map can be updated during operation of the switch.
- 14. (currently amended): A quality of service (QoS) shaping and provisioning method for a switch having a plurality of ports, the method comprising the steps of:

receiving a packet having a first priority value

on a first port;

determining a second priority value for the

packet based on one or more flow properties;

processing the packet on the switch based on the second

priority value;

determining a third priority value for the packet

based on the one or more flow properties; and

applying the third priority value to the packet

prior to transmission from the switch; and

wherein the second priority value is determined based on one or more flow properties including at least one value from a packet field that is not dedicated to defining QoS.

15. (original): The method of claim 14 wherein the first priority value includes an inbound priority value, and at least one of the second priority value and the third priority value is determined based on the inbound priority value.

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- 16. (original): The method of claim 14 wherein the second priority value includes an internal priority value, and the internal priority value is used to indicate a processing priority of the packet while the packet is being processed in the switch.
- 17. (original): The method of claim 14 wherein the third priority value includes an outbound priority value, and the outbound priority value is applied to the packet before the packet is transmitted from the switch.

## 18. (canceled):

- 19. (original): The method of claim 14 wherein the third priority value is determined based on one or more flow properties including at least one value from a packet field that is not dedicated to defining QoS.
- 20. (original): The method of claim 14 wherein the second priority value is determined based on one or more flow properties including at least one of Layer 2 information, Layer 3 information and Layer 4 information.
- 21. (original): The method of claim 14 wherein the third priority value is determined based on one or more flow properties including at least one of Layer 2 information, Layer 3 information and Layer 4 information.
- 22. (original): The method of claim 14 wherein the first priority value is mapped by a first QoS shaping map into the second priority value, and the first priority value is mapped by a second QoS shaping map into the third priority value, and wherein mapping information for the first QoS shaping map and mapping information for the second QoS shaping map can be updated during operation of the switch.

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23. (currently amended): A switch having one or more switching modules that are capable of QoS shaping and provisioning, each switching module comprising:

one or more ports for receiving a plurality of inbound packets and for transmitting a plurality of outbound packets;

an access controller coupled to the input ports

for receiving the inbound packets, each inbound packet having an inbound priority value and a plurality of flow properties; and

a switching controller coupled to the access controller for receiving the inbound packets from the access controller, for determining a plurality of packet priority values based on the plurality of flow properties, and for providing the outbound packets to the ports to be transmitted; and

wherein the packet priority values are determined based on one or more flow properties including at least one value from a packet field that is not dedicated to defining QoS.

- 24. (original): The switch of claim 23 wherein the packet priority values include an internal priority value, and the internal priority value is used to indicate a processing priority of the inbound packets while the inbound packets are being processed in the switch.
- 25 (original): The switch of claim 23 wherein the packet priority values include an outbound priority value, and the outbound priority value is applied to the inbound packets before the inbound packets are transmitted from the switch as an outbound packet.
- 26. (original): The switch of claim 23 wherein the packet priority values are determined based on the inbound priority value.
  - 27. (canceled):

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28. (currently amended): The <u>switch</u> apparatus of claim 23, wherein the packet priority values are determined based on one or more flow properties including at least one of Layer 2 information, Layer 3 information and Layer 4 information.

29. (original): The switch of claim 23 wherein the switching controller includes a priority determination map for mapping the inbound priority value into one or more packet priority values.

30. (original): The switch of claim 29 wherein mapping information of the priority determination map can be updated during operation of the switch.

31. (previously presented): The method of claim 1, wherein the first priority value includes an inbound priority value, and the third priority value is determined based on the inbound priority value.

32. (previously presented): The method of claim 1 wherein the third priority value includes an outbound priority value, and the outbound priority value is used to indicate a processing priority of the packet after the packet is transmitted from the switch.

33. (previously presented): The method of claim 1 wherein the third priority value is determined based on one or more flow properties including at least one of Layer 2 information, Layer 3 information and Layer 4 information.

34. (previously presented): The method of claim 8 wherein the second priority value includes an internal priority value, and the internal priority value is used to indicate a processing priority of the packet while the packet is being processed in the switch.

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- 35. (previously presented): The method of claim 8 wherein the second priority value is determined based on one or more flow properties including at least one of Layer 2 information, Layer 3 information and Layer 4 information.
  - 36. (canceled):